OBLON, SPIVAK, et al.
DOCKET NO: 249656US2S DIV
INVENTOR:
Yasufumi TSUMAGARI et al.
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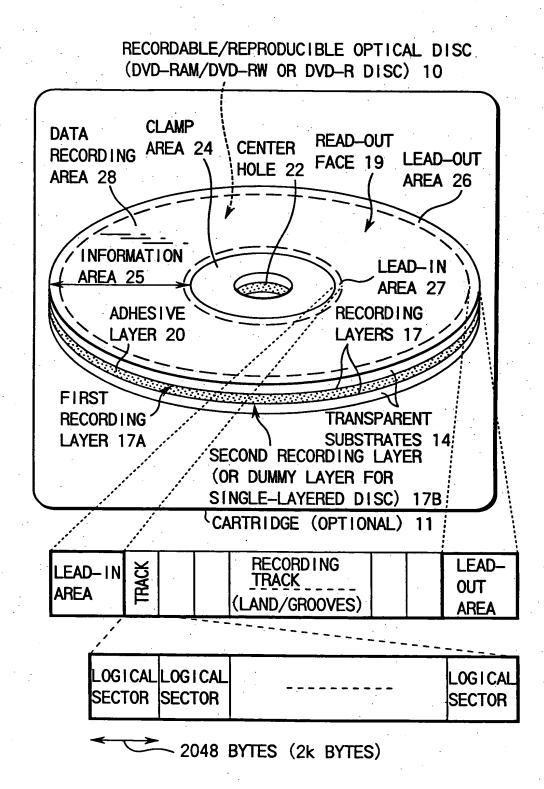
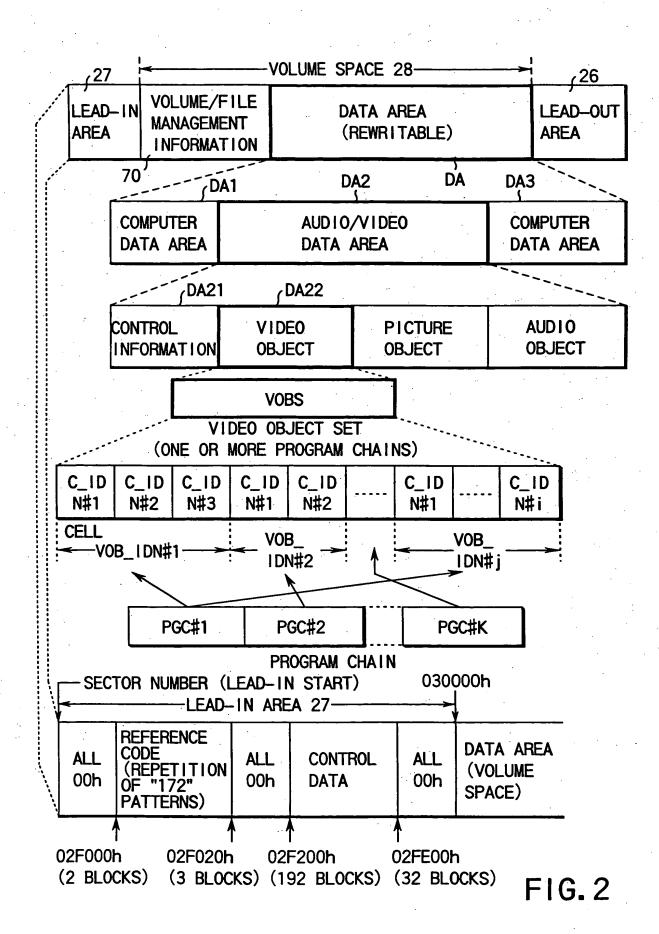


FIG. 1

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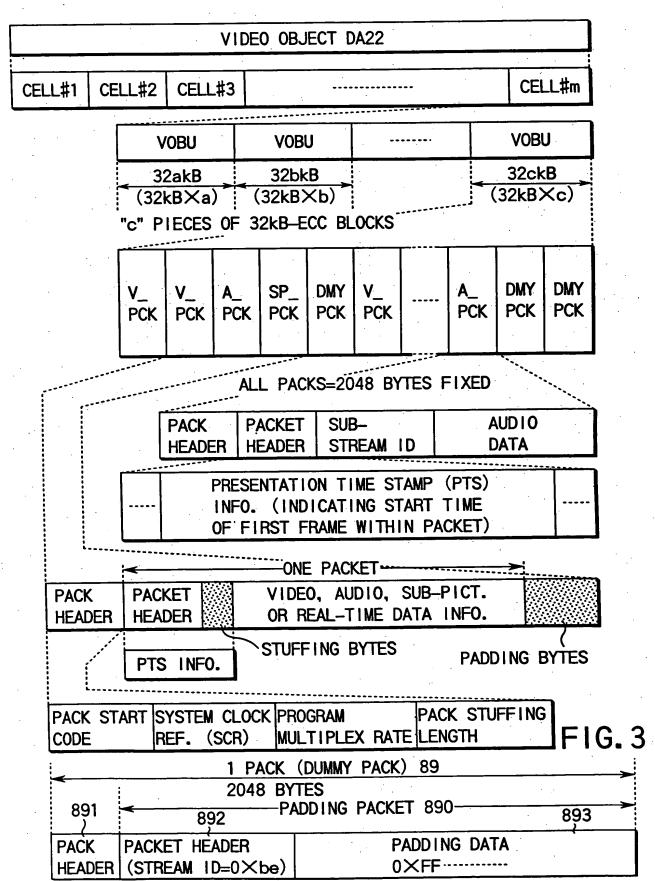


FIG. 4

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ROOT DIRECTORY SUB-DIRECTORY DVD-RTR DIRECTORY **FILES** RTR. IFO (VR_MANGR. IFO) (NAVIGATION DATA RTR_VMG) RTR MOV. VRO (VR_MOVIE. VRO) (MOVIE VIDEO OBJECT) RTR_STO.VRO (VR_STILL.VRO) (STILL PICTURE VIDEO OBJECT) RTR_STA. VRO (VR_AUDIO. VRO) (STILL PICTURE ADDITIONAL AUDIO OBJECT) RTR=REAL TIME RECORDING OTHER DIRECTORIES VIDEO_TS (VIDEO TITLE SET) AUDIO_TS (AUDIO TITLE SET) SUB-DIRECTORY FOR OTHER FILES COMPUTER DATA STORAGE

FIG.5

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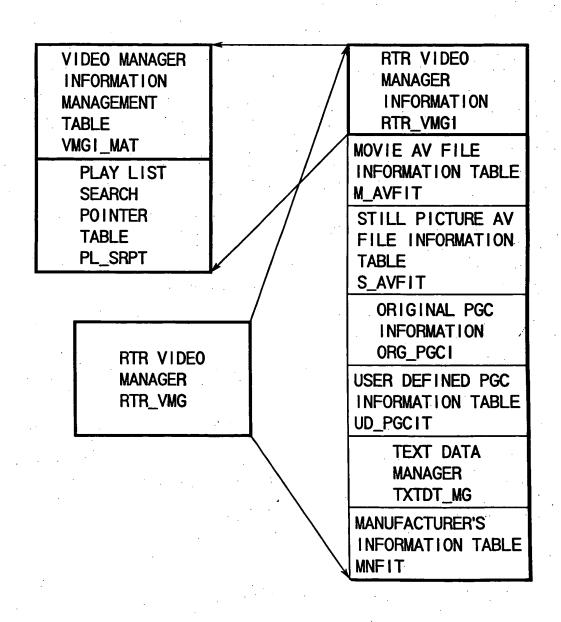


FIG. 6

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CONTENTS OF VIDEO MANAGER INFORMATION MANAGEMENT TABLE (VMGI_MAT)

RBP	FILE NAME	CONTENTS
0–11	VMG_ID	VMG IDENTIFIER
12–15	RTR_VMG_EA	END ADDRESS OF RTR_VMG
16–27	RESERVED	RESERVED
28–31	VMGI_EA	END ADDRESS OF VMGI
32–33	VERN	VERSION NUMBER OF DVD SPECIFICATION FOR VIDEO RECORDING
32–127	RESERVED	RESERVED
128–129	TM_ZONE	TIME ZONE
130–131	STILL_TM	STILL TIME FOR STILL PICTURES
132–133	CHRS	CHARACTER SET CODE FOR PRIMARY TEXT
134–148	RSM_MRK I	RESUME MAKER INFORMATION
149–163	REP_PICTI	DISC REPRESENTATIVE PICTURE INFORMATION
164–191	RESERVED	RESERVED
192–195	M_AVFIT_SA	START ADDRESS OF M_AVFIT
196–199	S_AVFIT_SA	START ADDRESS OF S_AVFIT
200–207	RESERVED	RESERVED
208–211	ORG_PGCI_SA	START ADDRESS OF ORG_PGC1
212–215	UD_PGCTT_SA	START ADDRESS OF UD_PGCIT
216–219	TXTDT_MG_SA	START ADDRESS OF TXTDT_MG
220–223	MNFIT_SA	START ADDRESS OF MNFIT
224-511	RESERVED	RESERVED FOR FUTURE USE

RBP=RELATIVE BYTE POSITION

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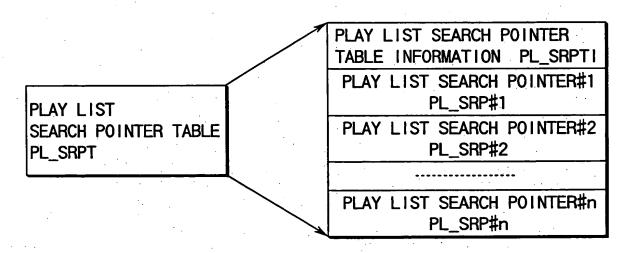


FIG.8

CONTENTS OF PLAY LIST SEARCH POINTER TABLE INFORMATION (PL_SRPTI)

RBP	FILE NAME	CONTENTS
0–2	RESERVED	RESERVED
3	PL_SRP_Ns	NUMBER OF PLAY LIST SEARCH POINTERS
4–7	PL_SRPT_EA	END ADDRESS OF PL_SRPT

RBP=RELATIVE BYTE POSITION

FIG.9

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CONTENTS OF PLAY LIST SEARCH POINTER (PL_SRP)

RBP	FILE NAME	CONTENTS
0	RESERVED	RESERVED
1	PL_TY	PLAY LIST TYPE
2	PGCN	PGC NUMBER
3–7	PL_CREATE_TM	TIME WHEN PLAY LIST WAS CREATED
8–135	PRM_TXT1	PRIMARY TEXT INFORMATION
136–137	IT_TXT_SRPN	ITEM TEXT SEARCH POINTER NUMBER FOR THIS PLAY LIST IT_TXT_SRPN
138–145	THM_PTRI	THUMBNAIL POINTER INFORMATION

RBP=RELATIVE BYTE POSITION

FIG. 10

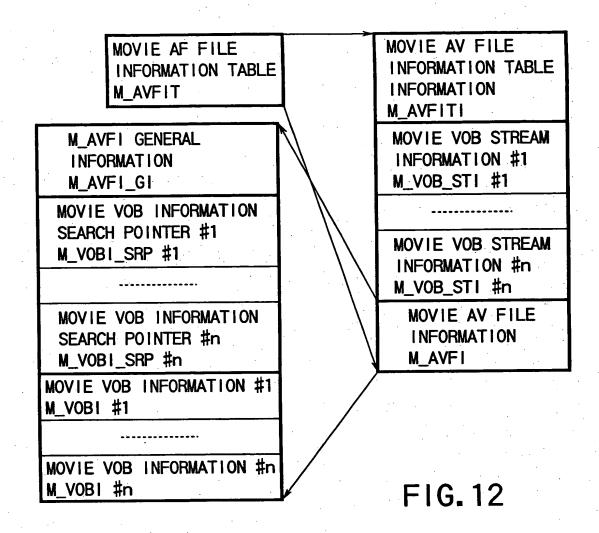
CONTENTS OF THUMBNAIL POINTER INFORMATION (THM_PTRI)

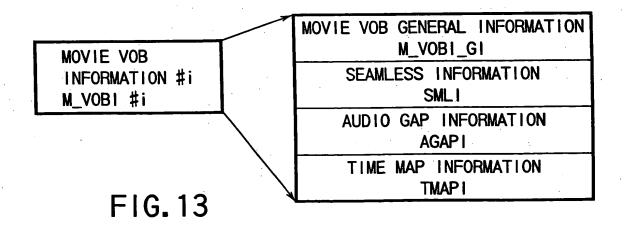
RBP	FILE NAME	CONTENTS
138–139	CN	CELL NUMBER
140–145	THM_PT	THUMBNAIL POINT

RBP=RELATIVE BYTE POSITION

FIG. 11

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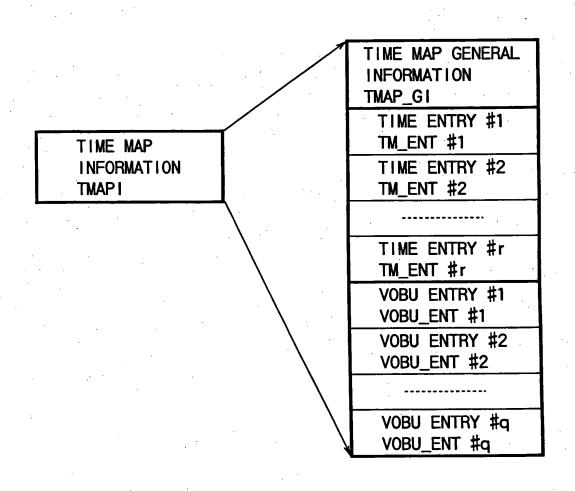


FIG. 14

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CONTENTS OF TIME MAP GENERAL INFORMATION (TMAP_GI)

RBP	FILE NAME	CONTENTS
0–1	TM_ENT_Ns	NUMBER OF TIME ENTRIES
2–3	VOBU_ENT_Ns	NUMBER OF VOBU ENTRIES
4–5	TM_OFS	TIME OFFSET
6–9	ADR_OFS	ADDRESS OFFSET

RBP=RELATIVE BYTE POSITION

FIG. 15

CONTENTS OF TIME ENTRY (TM_ENT)

RBP	FILE NAME	CONTENTS
0–1	VOBU_ENTN	VOBU ENTRY NUMBER
2	TM_DIFF	TIME DIFFERENCE
3–6	VOBU_ADR	TARGET VOBU ADDRESS

RBP=RELATIVE BYTE POSITION

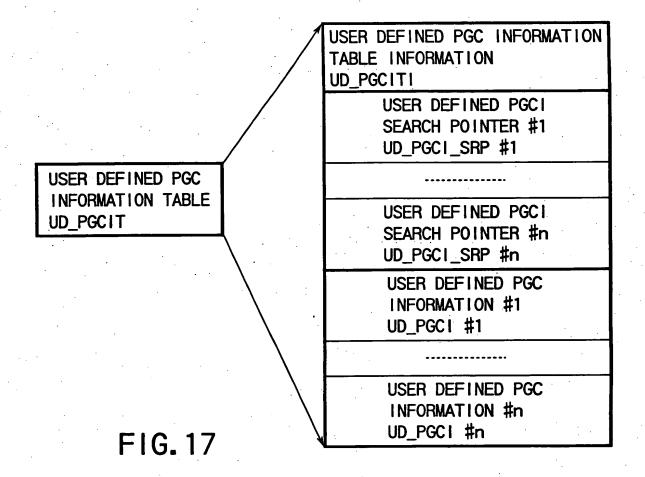
FIG. 16

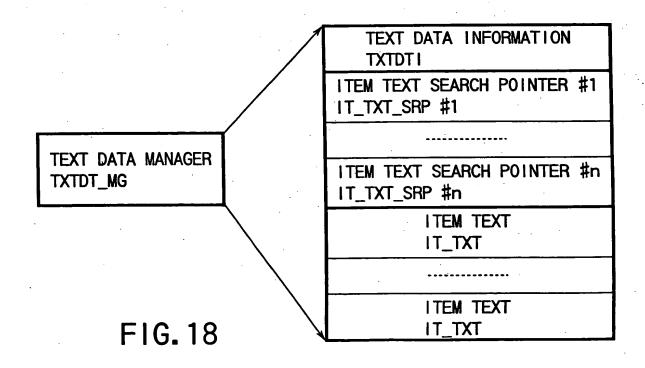
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OBLON, SPIVAK, et al. DOCKET NO: 249656US2S DIV INVENTOR: Yasufumi TSUMAGARI et al. SHEET 13 of 41

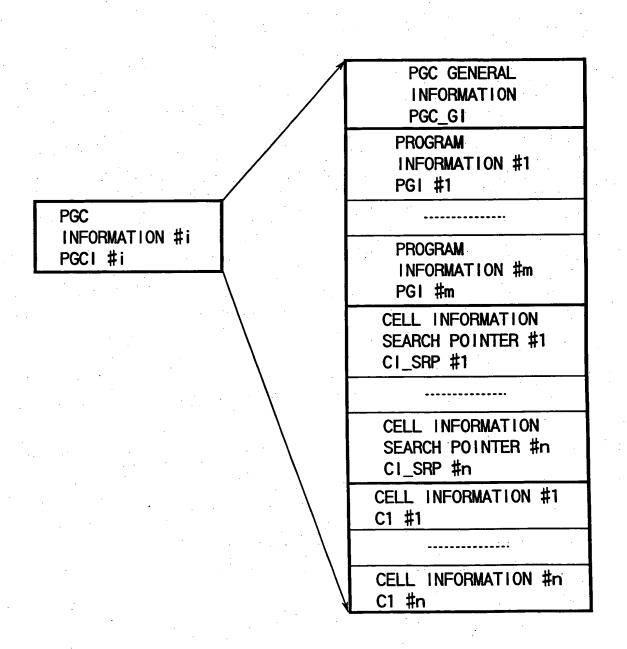


FIG. 19

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CONTENTS OF PGC GENERAL INFORMATION (PGC_GI)

RBP	FILE NAME	CONTENTS
0	RESERVED	RESERVED
1	PG_Ns	NUMBER OF PROGRAMS
2–3	CI_SRP_Ns	NUMBER OF CI_SRPs

RBP=RELATIVE BYTE POSITION

FIG. 20

CONTENTS OF PROGRAM INFORMATION (PGI)

RBP	FILE NAME	CONTENTS
0	RESERVED	RESERVED
1	PG_TY	PROGRAM TYPE
2–3	C_Ns	NUMBER OF CELLS IN THIS PROGRAM
4–131	PRM_TXT1	PRIMARY TEXT INFORMATION
132–133	IT_TXT_SRPN	IT_TXT_SRP NUMBER
134–141	THM_PTRI	THUMBNAIL POINTER INFORMATION

RBP=RELATIVE BYTE POSITION

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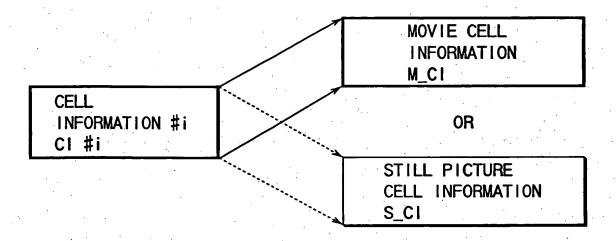


FIG. 22

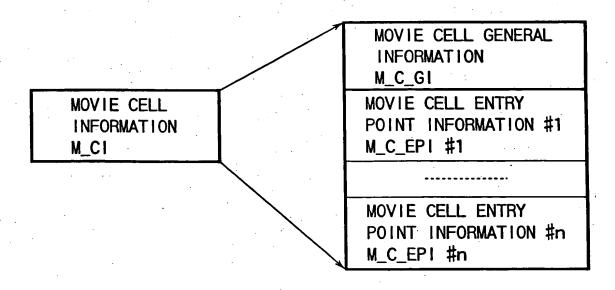


FIG. 23

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CONTENTS OF MOVIE CELL GENERAL INFORMATION (M_C_GI)

RBP	FILE NAME	CONTENTS
0	RESERVED	RESERVED
1	C_TY	CELL TYPE
2–3	M_VOBI_SRPN	MOVIE VOBI SEARCH POINTER NUMBER
4–5	C_EPI_Ns	NUMBER OF CELL ENTRY POINT INFORMATION
6–11	C_V_S_PTM	PRESENTATION START TIME OF THIS CELL
12–17	C_V_E_PTM	PRESENTATION END TIME OF THIS CELL

RBP=RELATIVE BYTE POSITION

FIG. 24

CONTENTS OF MOVIE CELL ENTRY POINT INFORMATION (M_C_EPI)

RBP	FILE NAME	CONTENTS
0	EP_TY	ENTRY POINT TYPE
1–6	EP_PTM	PRESENTATION TIME OF ENTRY POINT
7–134	PRM_TXT1	PRIMARY TEXT INFORMATION

RBP=RELATIVE BYTE POSITION

DATE INFORMATION
TEXT INFORMATION

FIG. 25

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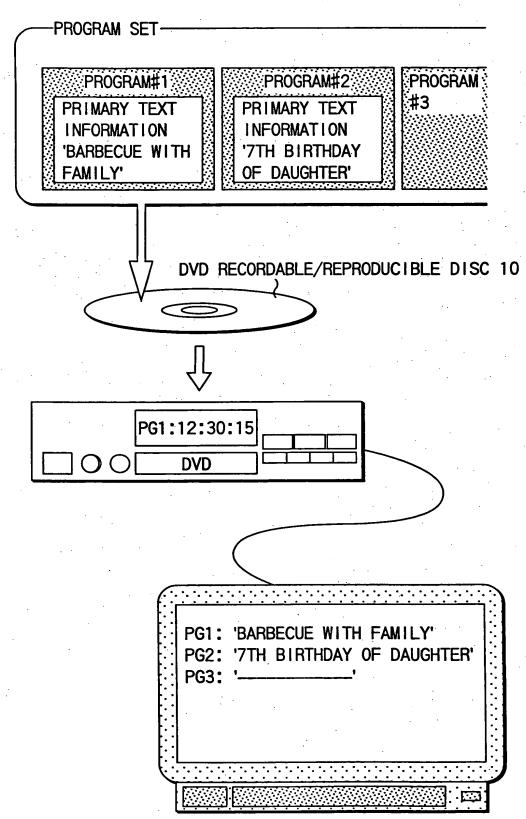


FIG. 26

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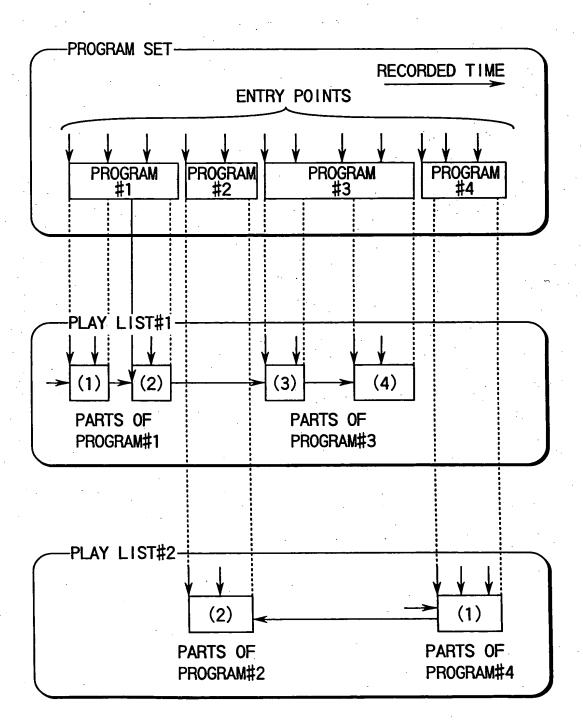


FIG. 27

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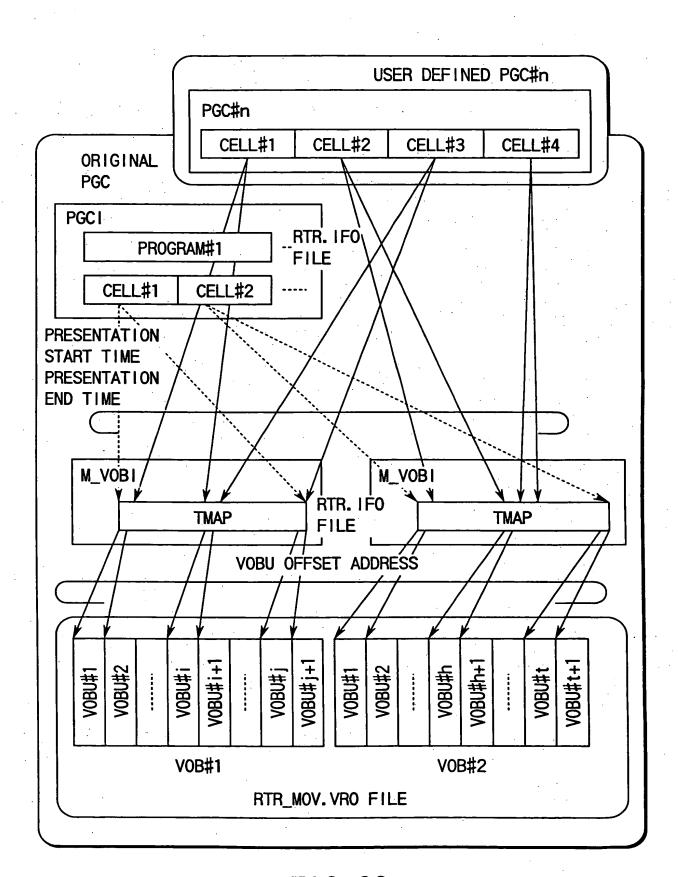
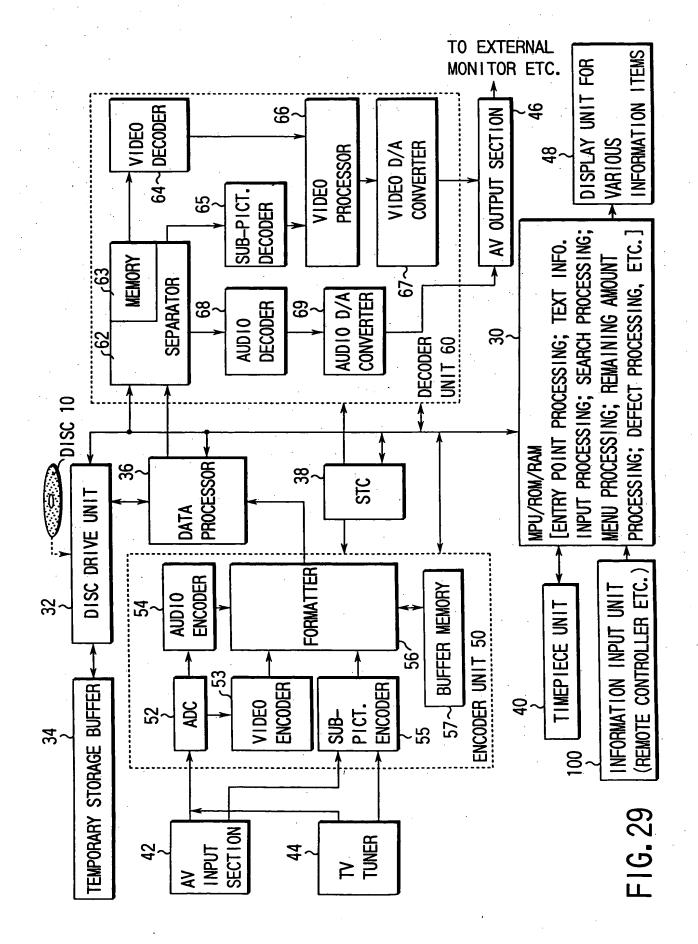


FIG. 28

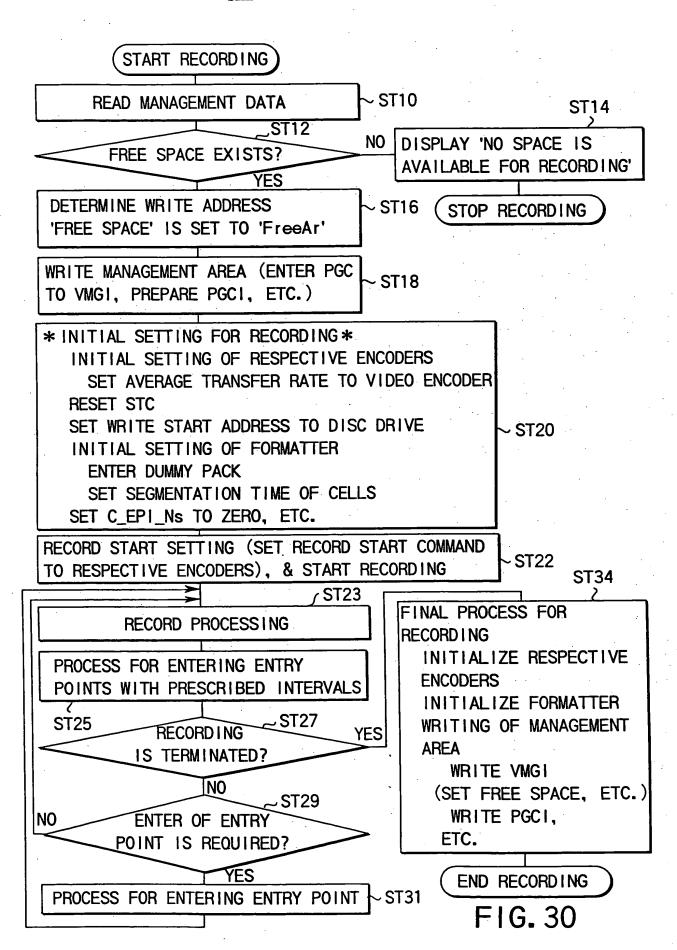
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Yasufumi TSUMAGARI et al.

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DOCKET NO: 249656US2S DIV
INVENTOR:
Yasufumi TSUMAGARI et al.
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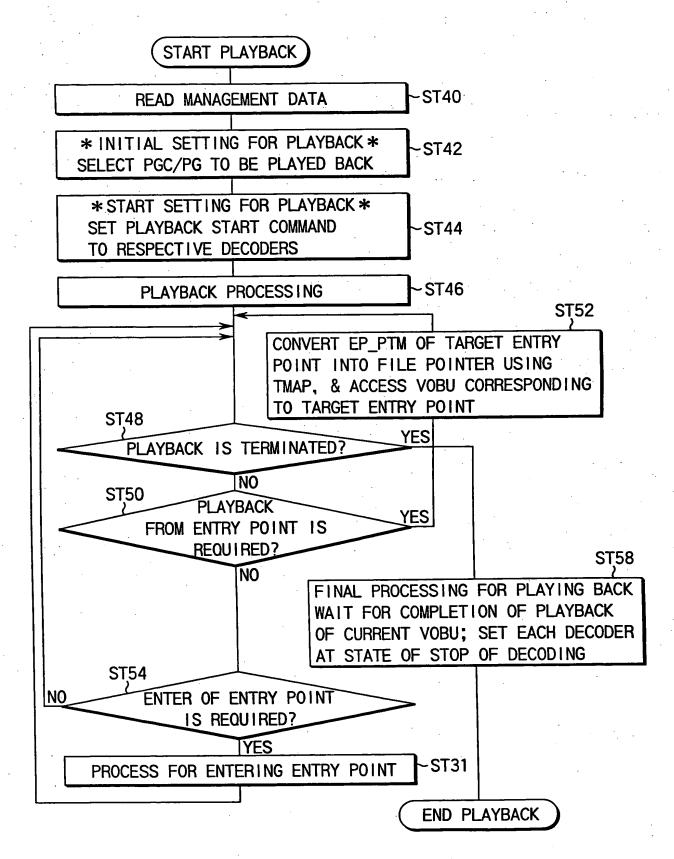


FIG. 31

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INVENTOR:
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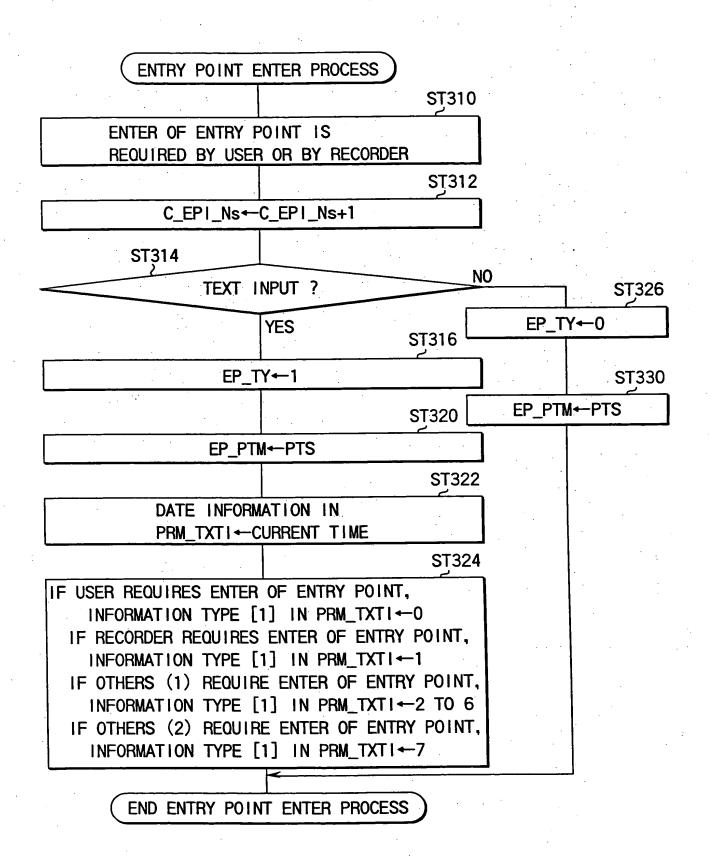


FIG. 32

OBLON, SPIVAK, et al. DOCKET NO: 249656US2S DIV INVENTOR: Yasufumi TSUMAGARI et al. SHEET 24 of 41

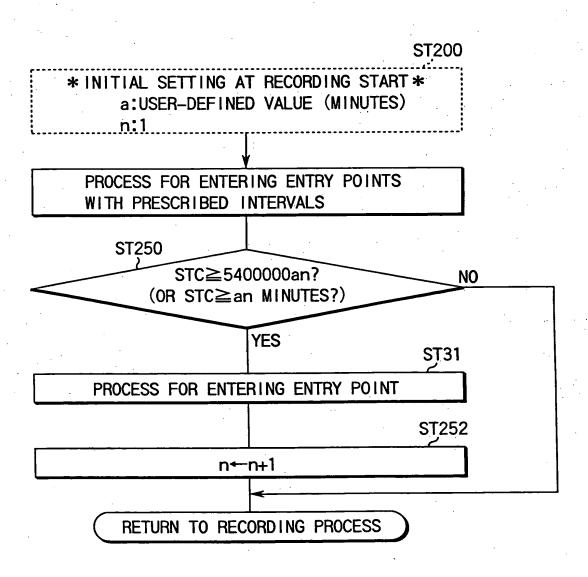


FIG. 33

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INVENTOR:
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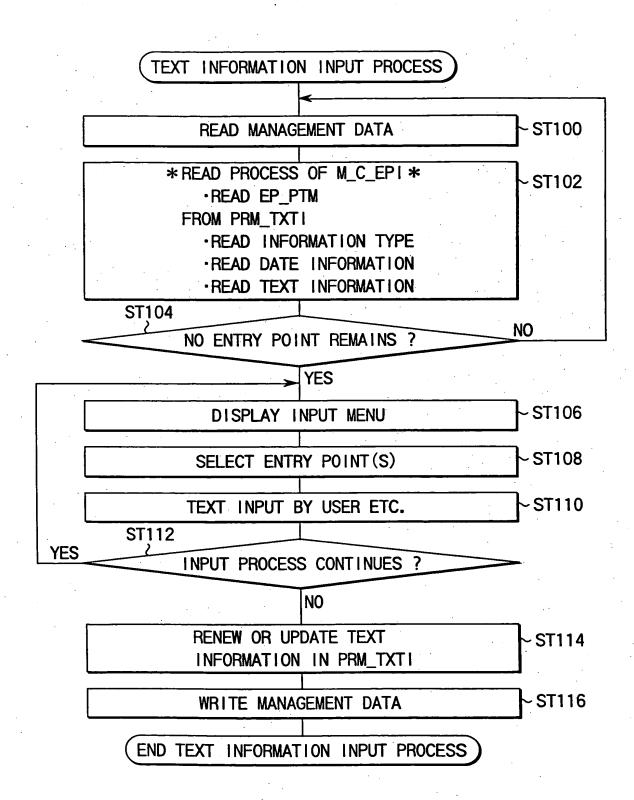


FIG. 34

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99.01.02 16:00 99.01.03 14:00 99.01.01 20:00 99.01.03 15:00 MARK REC DATE **ATTRIBUTE** USER USER USER SET CHARACTER INPUT CURSOR THUMBNAIL HURRY-UP BUS I NESSMAN CINDERELLA TITLE **PARTY** 01.00"

FIG. 35

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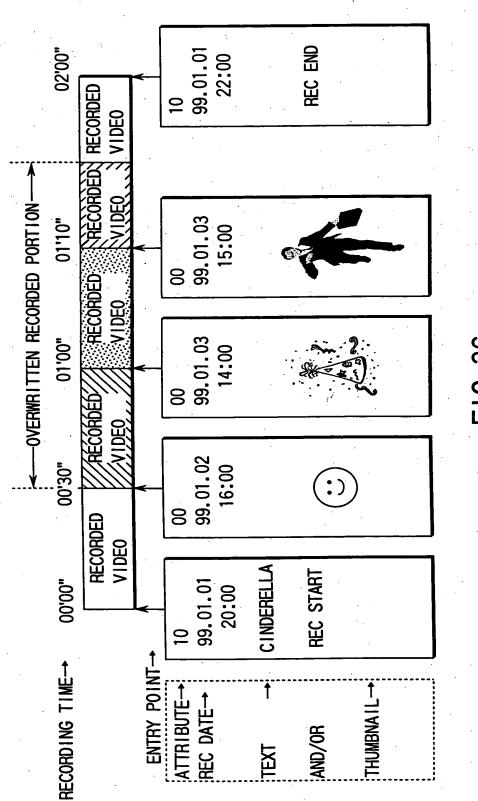


FIG. 36

OBLON, SPIVAK, et al. DOCKET NO: 249656US2S DIV INVENTOR: Yasufumi TSUMAGARI et al. SHEET 28 of 41

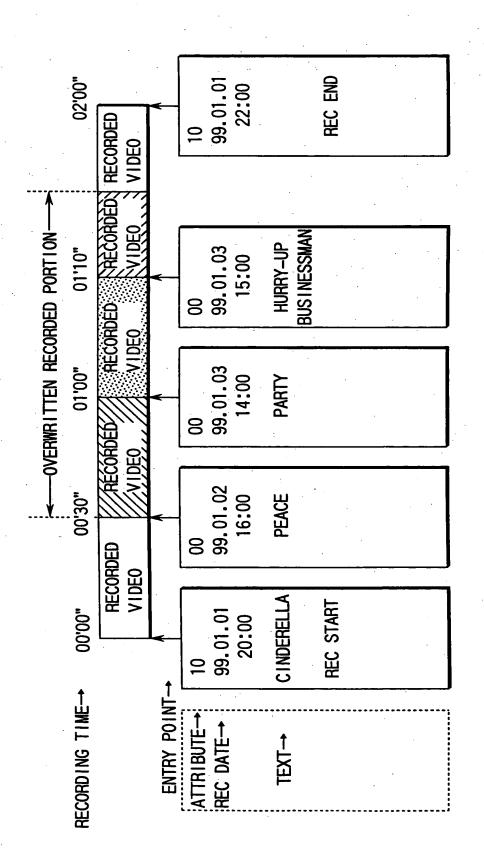


FIG. 37

OBLON, SPIVAK, et al. DOCKET NO: 249656US2S DIV INVENTOR: Yasufumi TSUMAGARI et al. SHEET 29 of 41

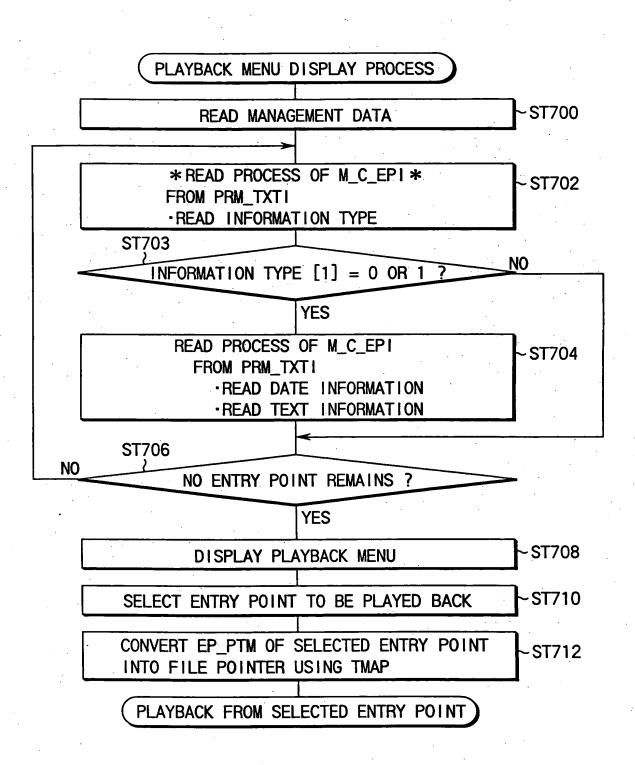


FIG. 38

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INVENTOR:
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MARK REC DATE	99.01.01 20:00	99.01.02 16:00	99.01.03 14:00	99.01.03 15:00		
ATTRIBUTE	SET	USER	USER	USER		
THUMBNAIL	(\bigcirc	200	0	SOR S	
TITLE	CINDERELLA	PEACE	PARTY	HURRY-UP BUS I NESSMAN	TITLE SELECTION CURSOR	
TIME	.00.00	.00.30	01.00	01.10"	TITLE S	

OBLON, SPIVAK, et al.
DOCKET NO: 249656US2S DIV
INVENTOR:
Yasufumi TSUMAGARI et al.
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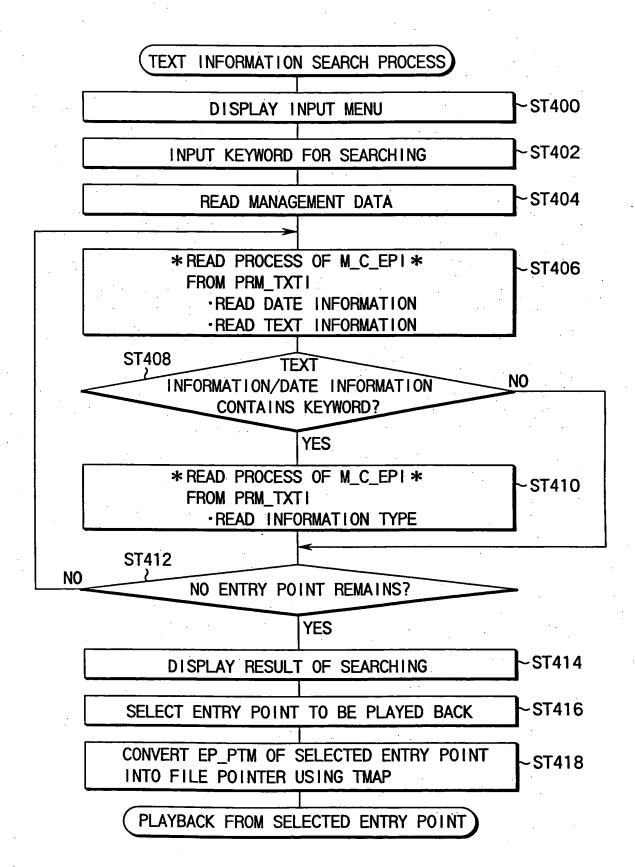


FIG. 40

OBLON, SPIVAK, et al. DOCKET NO: 249656US2S DIV INVENTOR: Yasufumi TSUMAGARI et al. SHEET 32 of 41

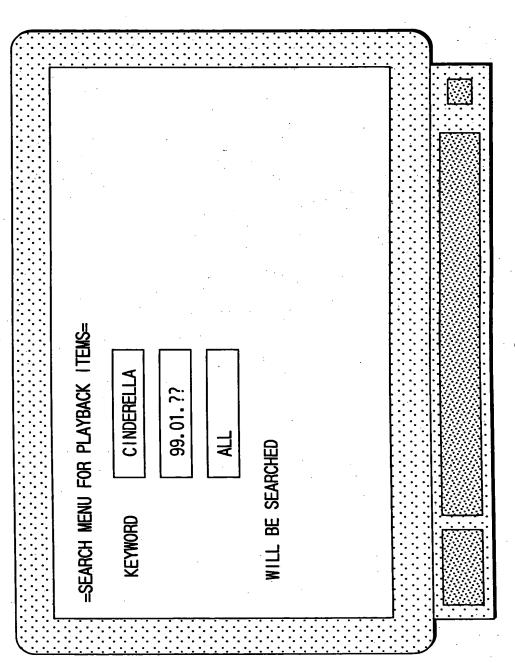


FIG. 41

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	MARK REC TIME	99.01.01 20:00	99.01.04 19:00			
	ATTRIBUTE	SET	SET			
=RESULT OF SEARCHING=	TITLE	CINDERELLA	WITCH & CINDERELLA			
=RESULT OF	TIME	.00.00	01.10"			

FIG. 42

OBLON, SPIVAK, et al.
DOCKET NO: 249656US2S DIV
INVENTOR:
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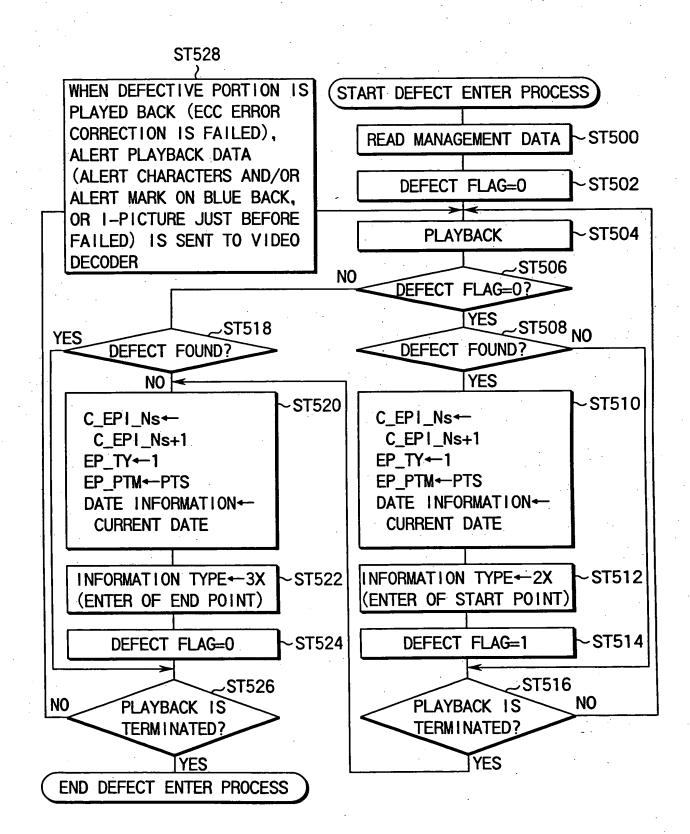


FIG. 43

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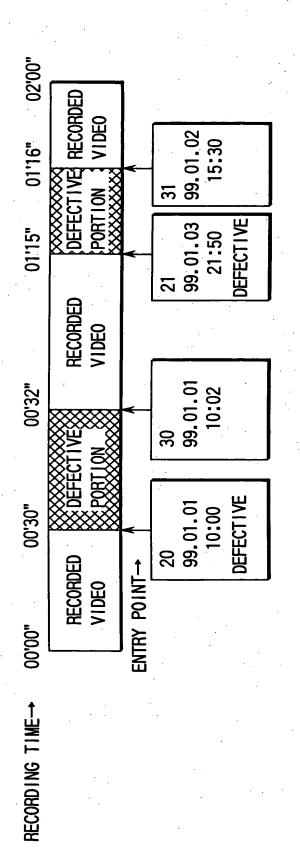


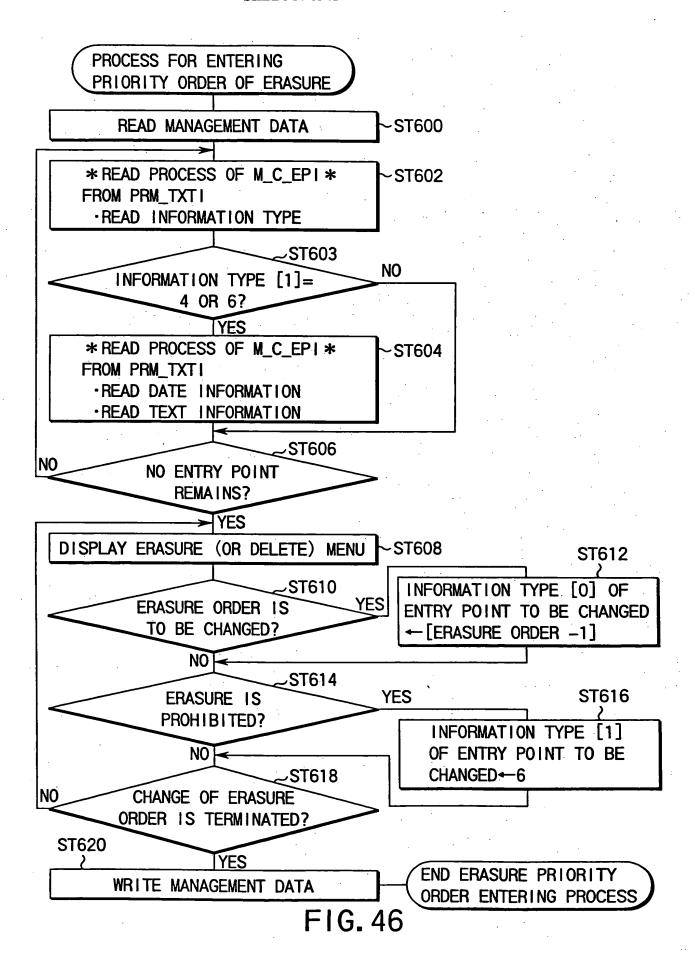
FIG. 44

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INVENTOR:
Yasufumi TSUMAGARI et al.
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I∴∴i			
	=DEFECT MANAGEMENT MENU=	EMENT MENU=	
	TIME	REPRODUCTION MANNER	DEFECT FOUND DATE
	00.30"-00.32"	TO PLAYBACK WITH INCOMPLETE VIDEO/AUDIO	99.01.01 10:00
	01'15"-01'16"	TO SKIPPING WHILE DISPLAYING ERROR ALERT ON BLUE BACK	99.01.03 21:50
	01'49"-01'52"	TO SKIPPING WHILE DISPLAYING ERROR ALERT ON STILL PICT. OBTAINED JUST BEFORE OCCURRING ERROR	99.01.15 09:00
•			

F16.45

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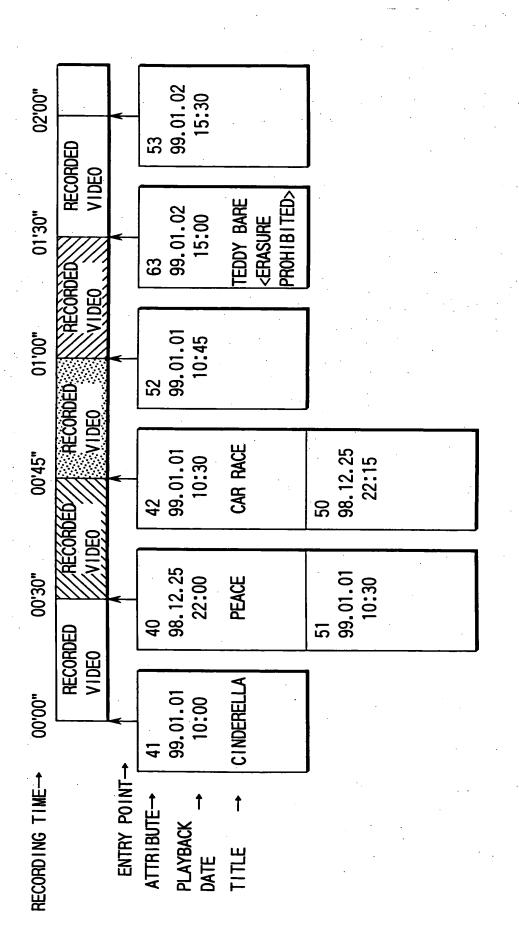
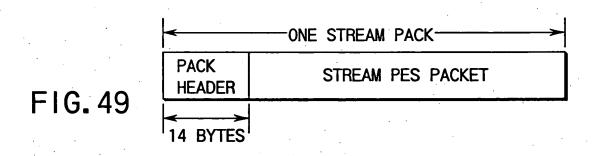


FIG. 47

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erasure order		•		CAN'T ERASE	NO I	
SURE	2		(m)	⊢`N	ERASURE PROHIBITION	
EBA		•			E ER	
DATE	99.01.01 10:00	98.12.25 22:00	99.01.01 10:30	99.01.02 15:00	INPUT CURSOR FOR ERASURE ORDER OR ERASURE PROHIBI	
PLAYBACK DATE	1.01	2.25	1.01	1.02	CURS OR E	
PLAY	99.0	98. 1	99.0	99.0	INPUT	
THUMBNAIL	(\bigcirc				
111	ELLA	•	E S	BARE		
TITLE	CINDERELLA	PEACE	CAR RACE	TEDDY BARE	•	
		:	. —	<u>.</u>	• •	
H.	.00.00	00.30"	00'45"	01'30"		

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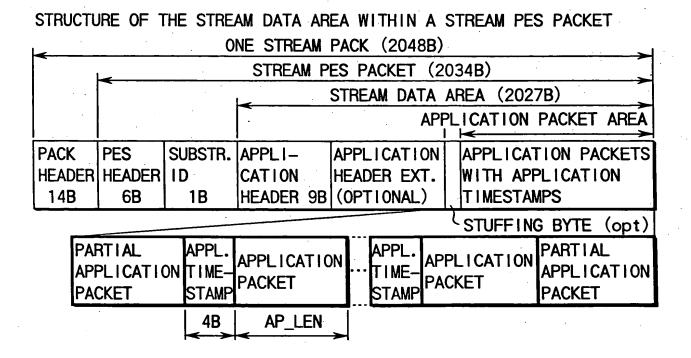


FIG. 50

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